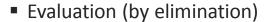


ABC Process and Selection *ABC Method*





- SPMT moves (cost > \$500,000, time)
- No launching (not feasible)
- Crane lift (bridge wt. 800 kips, staging area, experience)
- Prefabricated elements (time for demolition + Assembly + GRS)

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ABC Process and Selection ABC Selection



- Selected (lateral slide)
 - Approximate cost < \$150,000 or 10% of bridge
 - Best fit for the desired MOT plan
 - Minimal traffic closure time

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Design Plan

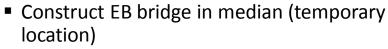


- Coordinate with other disciplines
- Match design with Specifications and MOT requirements
- Verify constructability with workable construction sequence
- Allow for cost effective contingencies (reduce risk)
- Utilize experienced and competent personnel
- Perform timely reviews and provide effective resolutions
- Evaluate design criteria

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Construction Sequence Phase 1



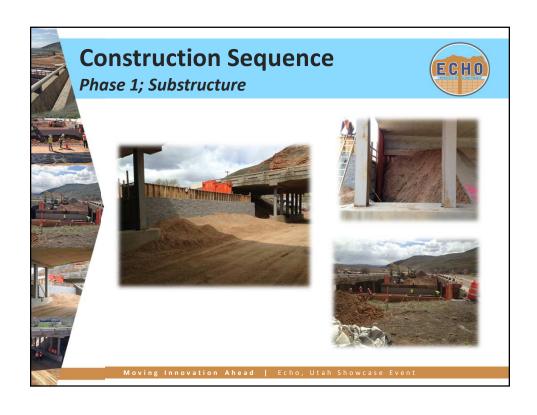


- Prepare ground and place GRS
- Construct spread footing for EB bridge
- Construct superstructure
- Construct temporary WB roadway crossover approaches to this median bridge
- Place asphalt overlay
- Move/divert WB traffic to median bridge and close access to WB bridge

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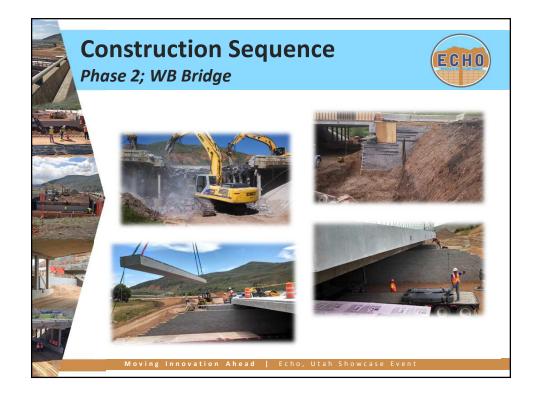
Construction Sequence Phase 2

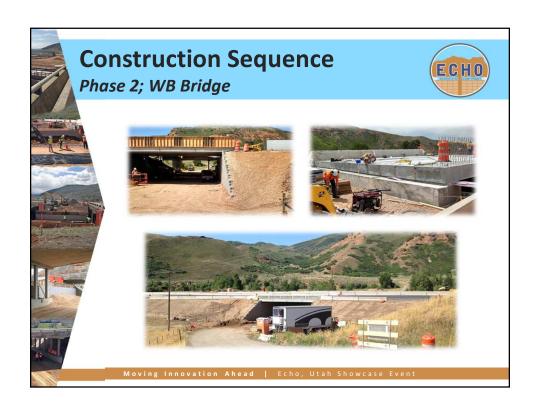




- Construct new WB bridge (built in place)
 - Prepare ground and place GRS
 - Construct spread footing
 - Construct superstructure
 - Build roadway approaches to new WB bridge
 - Place asphalt overlay
 - Move WB traffic from median bridge back to WB bridge (new bridge)
 - Construct temporary EB roadway crossover approaches to median bridge

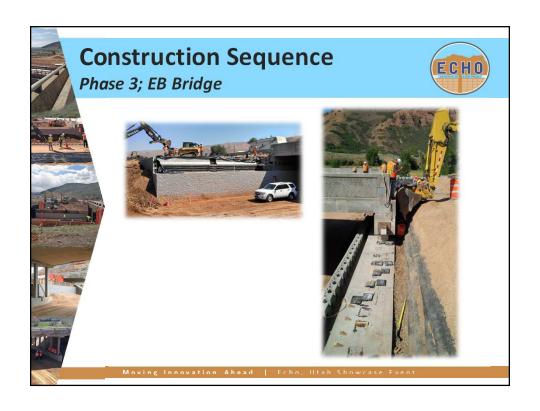
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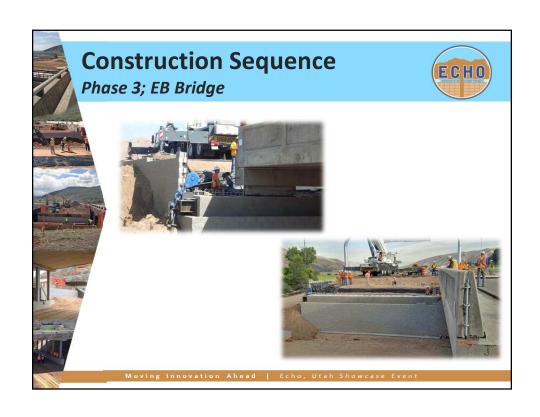


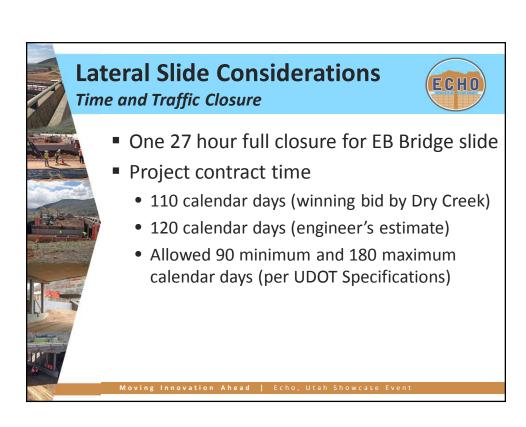












Lateral Slide Considerations



- Transpose structure
 - Elevations at temporary location match final location
- Provide redundancies
 - Strength and rigidity for slide
 - Tolerances
- Evaluate sliding methods
 - Use of rollers, sliding pads
 - Use of push/pull jacks, cables
 - Estimate of lateral control

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Lateral Slide Considerations



- Plans
- Tolerances
- Bridge performance
- Improvements

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Risk Assessment Prescriptive Over Performance



- Pros
 - Take advantage of UDOT design team experience
 - Reduce risk and ensure quality
 - Level playing field (contractor bid)
 - Provide more detail than normal
- Cons
 - Restrict contractor options
 - Require thorough understanding
- Combination
 - Add benefits to all parties

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